

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A color chart, for creating a color conversion definition for converting first color data representative of coordinate points in a first color space depending on an input device for entering image to obtain image data into second color data representative of coordinate points in a second color space independent of devices, in which a plurality of color patches different in color is arranged, ~~wherein~~ said color chart ~~includes~~ comprising:

color patches associated with all vertexes of a rectangular parallelepiped defined by a

base coloring amountvalue (QC_b , QM_b , QY_b) comprising:

combinations of minimum coloring amountsvalues QC_b , QM_b and QY_b of

monochromes of cyan, magenta and yellow in a coloring

amountvalue space represented by three axes of coloring

amountsvalues of cyan, magenta and yellow,

a maximum coloring amountvalue QC_{max} of monochrome of cyan,

a maximum coloring amountvalue QC_{max} of monochrome of magenta M,

and

a maximum coloring amountvalue QY_{max} of monochrome of yellow Y in

the coloring amountvalue space, ~~and in addition and~~:

a color patch associated with an intermediate point located between two vertexes on a straight line coupling the two vertexes with one another, even if any two vertexes of the rectangular parallelepiped are selected.

2. (currently amended): A color conversion definition creating method of creating a color conversion definition for converting first color data representative of coordinate points in a first color space depending on an input device for entering image to obtain image data into second color data representative of coordinate points in a second color space independent of

devices,

wherein a color chart is adopted to obtain the second color data representative of coordinate points in the second color space associated with a plurality of color patches constituting said color chart, and also to obtain the first color data representative of coordinate points in the first color space associated with a plurality of color patches constituting said color chart, through inputting said color chart to said input device, said color chart ~~includes~~ comprising:

color patches associated with all vertexes of a rectangular parallelepiped defined by a

base coloring ~~amount~~value (QC_b , QM_b , QY_b) comprising:

combinations of minimum coloring ~~amounts~~values QC_b , QM_b and QY_b of

monochromes of cyan, magenta and yellow in a coloring

~~amount~~value space represented by three axes of coloring

~~amounts~~values of cyan, magenta and yellow,

a maximum coloring ~~amount~~value QC_{max} of monochrome of cyan,

a maximum coloring ~~amount~~value QM_{max} of monochrome of magenta M,

and

a maximum coloring ~~amount~~value QY_{max} of monochrome of yellow Y in

the coloring ~~amount~~value space, ~~and in addition and;~~

a color patch associated with an intermediate point located between two vertexes on a straight line coupling the two vertexes with one another, even if any two vertexes of the rectangular parallelepiped are selected, and the color conversion definition is created by association of said first color data with said second color data.

3. (currently amended): The color conversion definition creating method of creating the color conversion definition of claim 2, wherein determining a value of an exterior point of a color reproduction area is based on,

$$(1) \quad C_c = C_a + \frac{(D)}{(D_s)} \times (C_b - C_a);$$

$$(2) \quad M_c = M_a + \frac{(D)}{(D_s)} \times (M_b - M_a);$$

$$(3) \quad Y_c = Y_a + \frac{(D)}{(D_s)} \times (Y_b - Y_a);$$

where: (C_a, M_a, Y_a) is a representative point inside the color reproduction area;

(C_b, M_b, Y_b) is a surface point of the color reproduction area;

(C_c, M_c, Y_c) is the exterior point outside of the reproduction area;

D_s is a distance between the representative point and the ~~exterior~~ surface point; and

D is a distance between the ~~surface~~ representative point and the exterior point.

4. (currently amended): The color chart for creating the color conversion definition of claim 1, with color patches associated with all vertexes of the rectangular parallelepiped, wherein:

$(QC_b, QM_{\max}, QY_{\max})$ represents the maximum coloring ~~amount~~ value of a saturated color Red;

$(QC_{\max}, QM_b, QY_{\max})$ represents the maximum coloring ~~amount~~ value of a saturated color Green; and

$(QC_{\max}, QM_{\max}, QY_b)$ represents the maximum coloring ~~amount~~ value of a saturated color Blue.

5. (currently amended): The color conversion definition creating method of claim 2, with the color chart having color patches associated with all vertexes of the rectangular parallelepiped, wherein:

$(QC_b, QM_{\max}, QY_{\max})$ represents the maximum coloring ~~amount~~ value of a saturated color Red;

$(QC_{\max}, QM_b, QY_{\max})$ represents the maximum coloring ~~amount~~ value of a saturated color Green; and

$(QC_{\max}, QM_{\max}, QY_b)$ represents the maximum coloring ~~amount~~ value of a saturated color Blue.

6. (previously presented): The color chart of claim 1, wherein the color chart provides a value for an exterior point located outside a reproduction area and where the value is based on a correlation between the exterior point and the reproduction area.

7. (new): The color chart of claim 1, wherein the color patches associated with all vertexes of a rectangular parallelepiped are defined by a base coloring percentage.